

Exam Date & Time: 30-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins + Grace Time : 15mins

BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)

Branch - BIOCHEMISTRY

CORE ELECTIVE-II - CLINICAL BIOCHEMISTRY [14BCV28A]

Marks: 75

Duration: 225 mins.

SECTION A

Answer all the questions.

- 1) Mention the role of insulin in carbohydrate metabolism. (2)
- 2) Define Pentosuria. (2)
- 3) What is the action of LCAT in HDL metabolism? (2)
- 4) Write about the types of hyperlipoproteinemias. (2)
- 5) What is defective in cystinuria? (2)
- 6) Name the enzyme markers of bone disorders. (2)
- 7) Define Orotic aciduria. (2)
- 8) What is the role of Urobilin and Urobilinogen in bilirubin metabolism? (2)
- 9) What is ACTH? Give its significance. (2)
- 10) Write about the action of catecholamine. (2)

SECTION B

Answer all the questions.

- 11) Define Hyperglycemia. What are the causes that lead to hyperglycemia. (5)
 - a) [OR] Describe the procedure and interpretation of GTT. (5)
 - b)
- 12) Comment on steatorrhea. (5)

- a)
[OR] Write a short note on abetalipoproteinemia. (5)
b)
- 13) Discuss the biochemical abnormalities and diagnosis of Alkaptonuria. (5)
- a)
[OR] Give a brief note on Albinism. (5)
b)
- 14) Describe the clinical manifestations and biochemical abnormalities of xanthiuria. (5)
- a)
[OR] Explain the diagnosis and defect in Gilbert's disease. (5)
b)
- 15) Discuss the clinical applications of thyroid hormone measurements. (5)
- a)
[OR] Write about the factors affecting the catecholamine levels. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) Discuss the complications and treatment of diabetes mellitus. (10)
- 17) Describe the types of Fatty liver. (10)
- 18) Explain the biochemical abnormalities, clinical manifestations and diagnosis of maple syrup urine disease. (10)
- 19) Give a detailed note on Gout. (10)
- 20) Elaborate on Cushing's syndrome and Addison's disease. (10)

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